

AMENDED SPECIFICATION

Reprinted as amended in accordance with the Decision of the Superintending Examiner, acting for the Comptroller-General, dated the sixteenth day of July, 1948, under Section 21 of the Patents and Designs Acts, 1907 to 1946.

PATENT SPECIFICATION

595,743



Application Date: June 22, 1945.

No. 15926/45.

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Complete Specification Accepted: Dec. 15, 1947.

PROVISIONAL SPECIFICATION

An Improved Brassiere

We, MARGERY TAYLOR BRYAN, a British subject, of 8, Leighton Road, Manchester, 16, and WILFRID HENRY CALMAN, a British subject, of 130, Forgate Street, Chester, do hereby declare the nature of this invention to be as follows:—

This invention relates to an improved brassiere.

Hitherto, most brassieres have been 10 shaped so as completely to enclose the breasts and usually fasten at the back and include shoulder straps, the purpose of the latter being to provide lift or support.

15 The object of the present invention is an improved construction of brassiere, providing support or uplift, without compression and with freedom and consequent comfort to the wearer.

20 According to the invention, the improved brassiere comprises a belt and shoulder harness, the harness embodying inverted V-shaped connections to the belt, across which are connected slings 25 attached at their bases to the belt and forming triangulated supporting structures.

In one example of the invention, the improved brassiere comprises a narrow 30 belt, adapted to be fastened at the back. Attached to such belt is a harness consisting at each side of a shoulder strap from the rear of the belt passing over the shoulder to a point above the breast and approximately level with the armpit. 35 From such point the harness divides in inverted V-shape, the ends being taken respectively to the centre front of the belt and to a point in the middle of the side, 40 so that the V symmetrically encloses the breast. A sling of suitable material and

of curved or cupped shape is attached by its ends across the inverted V of the harness, the connection to the side of the V being substantially below the armpit. 45 The sling is about 2 inches wide, or of such depth that, substantially, the lower half of the breast is supported, but leaving the nipple clear. The sling is attached to the belt at its base as well as 50 by its ends to the harness, so that its position is well determined by such attachment and by the connection of the V of the harness to the belt, which latter may be securely fastened to the 55 body without compressing the breasts. The triangulated formation of the harness, with the outer side members taken well (to the side) towards the back, holds the sling firmly in position, where 60 it can provide effective uplift or support, whilst the triangulated formation resists lateral movement. The upper part of the triangulated formation may be masked, 65 if desired, care being taken to avoid interference with the sling effect.

The construction of the harness may 70 include means of adjustment to enable the wearer to adjust the height of the slings and lengths of the shoulder straps.

In use, the improved brassiere provides support or uplift only where and in the direction required, and without compression, and, while giving more freedom for movement of the wearer. 75 without loss of support.

Dated this 20th day of June, 1945.

For the Applicants,
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[Price 1/-]

Price 3/-

Price 4/-

COMPLETE SPECIFICATION

An Improved Brassiere

We, MARJORIE TAYLOR BRYAN, a British subject, of 8, Leighton Road, Manchester, 16, and WILFRED HENRY CALNAN, a British subject, of 130, Foregate Street, Chester, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

10 This invention relates to an improved brassiere.

Hitherto, most brassieres have been shaped so as completely to enclose the breasts and usually fastened at the back 15 and include shoulder straps, the purpose of the latter being to provide lift or support.

It has however been proposed in brassieres and corsets having a bust support to provide shoulder harness in which each shoulder strap at the front is divided into two straps forming a V-shape and the ends of these straps have hitherto been attached to a belt, itself 20 shaped to provide a support for the breast, or to the upper edge of corners of a shaped piece of material adapted to form a support for the breast, which material is attached by its lower edge to 25 the belt or forms part of the belt. In the former construction the breast-supporting shaped part of the belt is so firmly held to the body by the belt that its fullness is limited by the shape of its 30 belt or forms part of the belt. In the latter construction the breast-supporting shaped part of the belt is so firmly held to the body by the belt that its fullness is limited by the shape of its 35 "cut."

In a modification of the former construction the belt has consisted of three bands spaced slightly apart, two of which are joined at their ends and provided with fasteners, while the third is 40 slightly shorter, all three bands being connected by all the ends of the straps being sewn across them so as to constitute a composite belt. In the latter construction the tension of the shoulder straps 45 cannot reach the front of the belt except through the breast-supporting parts, which can give rise to undesired pressure on the breasts. Where such parts themselves have been triangular in form the 50 same condition obtains, though perhaps to a lesser extent, but the shape of such parts is still mainly determined by their cut, and therefore accurate initial fitting 55 is essential and little compensation is possible for change of figure.

The object of the present invention is an improved construction of brassiere, providing support or uplift, without

compression and with freedom and consequent comfort to the wearer.

According to the invention, the improved brassiere comprises a belt and adjustable-length shoulder harness attached thereto, said harness embodying 65 at the front inverted V-shaped connections to the belt and sling-shaped breast-supporting members attached at their ends to the V-shaped connections of the harness and also attaches at part only 70 of their lower edges to the belt so as to form triangulated breast-supporting structures.

The improved brassiere aforesaid may be further characterised by means for 75 adjusting the length of any side of the said V-shaped connections of the harness so as to provide separate adjustment for either of the slings or for overall length of either side of the harness. 80

In the accompanying drawing:—

Fig. 1 is a perspective front view of one example of the improved brassiere made in accordance with the invention;

Fig. 2 shows to a larger scale the 85 adjusting means used in the brassiere shown in Fig. 1.

In the example of the invention shown in the drawing, the improved brassiere comprises a narrow belt *a*, 90 adapted to be fastened at the back at *a'* by any suitable means not shown. Attached to such belt is a harness consisting at each side of a shoulder strap *b* from points at the rear of the belt 95 passing over the shoulder to a point above the breast and approximately level with the armpit. At such ends, each strap is looped through a ring *c* and its end turned back and connected to an 100 adjustable slide *d* on the main part of the strap. (See Fig. 2). Below the rings *c* the harness divides at each side into an inverted V-shape. Each part *e* is of narrow strap-like form at its upper 105 end and is looped through one of the rings *c*, its end being doubled back and connected to its main part by a buckle-like adjustable slide *f*. Each part *e* widens out towards its lower end and the 110 two inner ones are overlapped and attached to the centre front of the belt at *a'* whilst the outer ones are attached at *a* towards the centre of each side of the belt so that each V symmetrically 115 encloses the corresponding breast. A sling *g* of suitable material and of curved or cupped shape is attached by its

ends across each inverted V of the harness. The sling is about 2 inches wide, or of such depth that, substantially the lower half of the breast is supported, but leaving the nipple clear. Each sling is also attached at α at about the centre only of its lower edge to the belt so that its position is well determined with minimum restriction as to its shape by such attachment and by the connection of the V of the harness to the belt, which latter may be securely fastened to the body without compressing the breasts. The triangulated formation of the harness, with the outer side members widely spaced, holds each sling firmly in position, where it can provide effective support whilst the triangulated formation resists lateral movement. The upper part of the triangulated formation may be masked (i.e. enclosed by material), if desired, care being taken to avoid interference with the sling effect or its adjustment. The adjustable slides f enable the wearer to adjust separately either of the slings by lengthening or shortening any side of the V-shaped connections of the harness whilst the slides d provide adjustment for length of the shoulder straps. Tension in the parts e will be taken direct to the belt but such parts being substantially at the sides of the breast will not cause compression of the breast nor will it affect much the tension of the sling.

In use, the improved brassiere by reason of its three points of adjustment provides support which is more adjustable for extent and direction than has hitherto been provided and without compression, and, while giving more freedom for movement of the wearer without loss of support.

Having now particularly described and ascertained the nature of our said

invention and in what manner the same is to be performed, we declare that what we claim is:—

1. A brassiere comprising a belt and adjustable-length shoulder harness attached thereto, said harness embodying at the front inverted V-shaped connections to the belt and sling-shaped breast supporting members attached at their ends to the V-shaped connections of the harness and also at part only of their lower edges to the belt so as to form triangulated breast-supporting structures.

2. A brassiere according to Claim 1 characterised by means for adjusting the length of any side of the said V-shaped connections of the harness so as to provide separate adjustment for either of the slings or for overall length of either side of the harness.

3. A brassiere according to Claim 1 or 2, further characterised in that the rear portions of the harness are separate for each other and independently connected to the belt.

4. A brassiere according to any of the preceding Claims characterised in that the breast supporting slings are relatively shallow so as to support the underside of the breast leaving the nipple clear.

5. A brassiere according to Claim 4, characterised by means for masking the upper portions of the triangulated formation.

6. A brassiere constructed and arranged substantially as herein described with reference to and as shown in the accompanying drawings.

Dated this 18th day of July, 1946.

For the Applicants,
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[This Drawing is a reproduction of the Original on a reduced scale.]

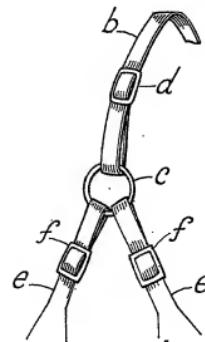
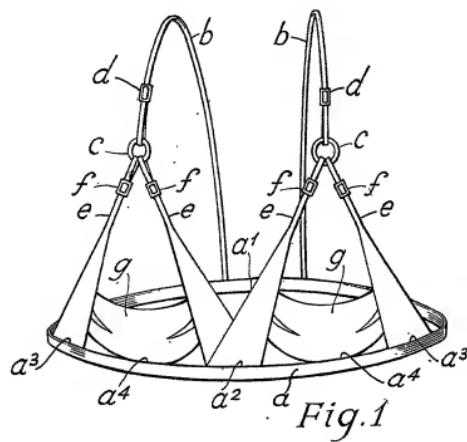


Fig. 2